eWit Wifi Access Point (EW-WAP-X6)

Key Features:

• Entry-level enterprise-class indoor 802.11axWi-Fi 6 wireless access point

• Wireless user management at a fine granularity

• Anti-thief

• Good PoE compatibility

• Dual-mode fit & fat

• 4X4 MU-MIMO, Wave2

• TWT

• 2.5Gbps Multi giga LAN Ports

About:

EW-WAP-X6 is a high-performance dual-band gigabit wireless access point developed by EWIT, based on the latest 802.11ax (Wi-Fi 6) standard. It delivers a combined maximum wireless throughput of up to 2975 Mbps. The device operates simultaneously on both 2.4GHz and 5GHz frequency bands. The 2.4GHz band supports speeds of up to 575 Mbps, while the 5GHz band offers up to 2400 Mbps. EW-WAP-X6 is equipped with advanced wireless technologies including MU-MIMO, OFDMA, spatial multiplexing, and Target Wake Time (TWT), ensuring high efficiency, lower latency, and better performance in dense network environments.

The Access Points must be compatible with IEEE 802.11a/b/g/n/ac/ax standards and feature dual-radio functionality in compliance with the Wi-Fi 6 specification.

The Access Point must support at least 4x4:4 MIMO on the 5 GHz band and 2x2:2 MIMO on the 2.4 GHz band (or higher). It should deliver a minimum data rate of 2400 Mbps on 5 GHz and at least 560 Mbps on 2.4 GHz.

The Access Point shall be equipped with one 2.5 Gbps Ethernet port, one 1 Gbps Ethernet port, and a USB port. It should also support IoT technologies, including Bluetooth and Zigbee.

The Access Points should support centralized management while also having the capability to operate as standalone devices.

The Access Point should support full MIMO operation and be compatible with PoE, PoE+, uPoE, or PoH for power delivery.

Security measures must be implemented to safeguard communication between the Access Point controller and the Access Points.

The Access Point should support DC power input as an alternative to PoE for power supply.

The AP should have a receive sensitivity of -98dBm

The AP should provide an antenna gain of minimum 3dBi on both the bands.

The Access Point should be capable of detecting dual-band clients and automatically steering them to the 5 GHz band instead of the 2.4 GHz band.

The AP should provide minimum Tx Power of 26dBm on both the bands and
Should support 1GB RAM and 512 MB flash

The AP should support 20, 40, 80, 160/80+80MHz channelization.

The Access Point should support WPA2 and WPA3 Enterprise authentication with AES/CCMP encryption, along with

authentication through 802.1X and Active Directory and access point should support 802.1q VLAN tagging.

The access point should support WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i security

The Access Point should concurrently support high-definition IP video, voice, and data applications without requiring any configuration changes. This capability must be demonstrable.

The Access Point should support WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/v.

The AP should have the capability to support minimum 30 BSSID's

Should support 500 or more clients per support IPv6 dual stack from day one

The Access Point should support mesh configuration where cable infrastructure may not be available either directly or through the controller

AP should support DHCP and NAT

The Access Point should support rate limiting, application recognition and control, access control lists, and device fingerprinting.

Device should be UL 2043 Plenum Rated.

Operating Temperature: 0ºC (32ºF) - 40ºC (104ºF). Operating Humidity: up to 95% non-condensing.
Should be WiFi certified and WPC approved

Mechanism for physical device locking using padlock /Kensington lock / equivalent

Access Point to be provided with 24/7 tac support and warranty for 5 years

ITEM	EW-WAP-X6
Dimensions (L*W*D) (mm)	201 x 195 x 41
Physical port	2 x 10/100/1000/2500Mbps ethernet ports
	1 x BLE module
Console port (RJ-45)	1
Ethernet port	2.5 gbps
USB 2.0	2
Power supply	802.3at and External power adapter (Input: 100～240V AC , Output: 12 V DC)
Maximum power consumption	<20W
RF port	Built-in 2.4 GHz 4 dBi antenna and 5 GHz 5 dBi antenna
Working frequency band	802.11b/g/n/ax: 2.4GHz-2.483GHz
	802.11a/n/ac/ax : 5.725~5.850GHz ; 5.150~5.350GHz ; 5.47~5.725GHz
Modulation technology	11b：DSS: CCK@5.5/11Mbps, DQPSK@2Mbps, DBPSK@1Mbps
	11a/g：OFDM:64QAM@48/54Mbps,16QAM@24Mbps, QPSK@12/18Mbps, BPSK@6/9Mbps
	11n：MIMO-OFDM: BPSK, QPSK,16QAM,64QAM
	11ac：MIMO-OFDM: BPSK, QPSK,16QAM,64QAM,256QAM
	11ax: MIMO-OFDM: BPSK, QPSK,16QAM,64QAM,256QAM,1024QAM
Transmit power	2.4GHz: 23dBm (Per Chain
	5GHz: 23dBm (Per Chain)
Power adjustment granularity	1 dBm
Working/Storage temperature	−10°C to +5 5°C
	−40°C to +70°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP41
Size	186*186*35.8mm
Certifications	RoHS, CE, ISO